Prostaglandin E2 (PGE2) is an endogenous prostaglandin derived from the action of cyclooxygenase on arachidonic acid. PGE2 has diverse biological actions in the areas of inflammation, cancer, immune modulation, fertility, smooth muscle relaxation and hematopoietic stem cell homeostasis. PGE2 acts through four distinct receptors: EP₁, EP₂, EP₃, EP₄.

2) Greenhough et al. (2009) The COX-2/PGE2 pathway: key roles in the hallmarks of cancer and adaptation to the tumour microenvironment Carcinogenesis 30 377
6) Coleman et al. (1994) Classification of prostanoid receptors: Properties, distribution and structure of the receptors and their subtypes Pharmacol.Rev. 46 205

**PHYSICAL DATA**

- Molecular Weight: 352.47
- Molecular Formula: C₂₀H₂₃O₅
- Purity: >98% (TLC)
- Solubility: DMSO (> 25 mg/ml) or ethanol (>25 mg/ml)
- Physical Description: White solid
- Storage and Stability: Store as supplied at -20°C for up to one year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months. May be diluted further into neutral aqueous media – acidic or basic media will cause decomposition to PGA2 and PGB2. Make aqueous solutions fresh daily - do not store.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.